

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start		Rating **	A	Issue No.	27
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_NA0016_01_s_2013_27				
Comment Code					
Inspector Comment					
District has the levee O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	28
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_NA0016_01_s_2013_28				
Comment Code					
Inspector Comment					
District maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	35
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_NA0016_01_s_2013_35				
Comment Code					
Inspector Comment					
District has flood response plans and maintains flood response training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	0.08	Rating **	C	Issue No.	104
LM End	0.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.800642 °	38.802413 °
				-121.724723 °	-121.724317 °
DWR ID	DWR_NA0016_01_s_2016_104				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.14	Rating **	M	Issue No.	1551	
LM End	0.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.801471 °		38.801471 °
				-121.725171 °		-121.725171 °
DWR ID	20224					
Comment Code						
Inspector Comment						
FS_ID:10087 DS_ID:20224 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Headwall on WS undermined about 3-4-feet. FIELD_STRUCT_DESC: 1 of 3: 36-inch steel drainage pipe through the levee, 30.0 feet below the crown. Flap gate on the waterside (WS) end. 24-inch pipe sleeved through the 36-inch pipe. Annular space between pipes grouted. Pumps in pump house with walkway on landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 0.15)]. FS Date: 3/12/2013						

Photo 1 of 3 : UCIP_SP_2019_10087_17235.jpg



Pumphouse at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	0.14	Rating **	M	Issue No.	1551 (cont)	
LM End	0.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.801471 °		38.801471 °
				-121.725171 °		-121.725171 °
DWR ID	20224					
Comment Code						
Inspector Comment						
FS_ID:10087 DS_ID:20224 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Headwall on WS undermined about 3-4-feet. FIELD_STRUCT_DESC: 1 of 3: 36-inch steel drainage pipe through the levee, 30.0 feet below the crown. Flap gate on the waterside (WS) end. 24-inch pipe sleeved through the 36-inch pipe. Annular space between pipes grouted. Pumps in pump house with walkway on landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 0.15)]. FS Date: 3/12/2013						

Photo 2 of 3 : UCIP_SP_2019_10087_17234.jpg



Air vents at outlet on WS toe.

LM Start	0.14	Rating **	M	Issue No.	1551 (cont)
LM End	0.14	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_10087_17233.jpg



Slide gates at pumphouse on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	0.14	Rating **	M	Issue No.	1552	
LM End	0.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.801479 °		38.801479 °
				-121.725176 °		-121.725176 °
DWR ID	20356					
Comment Code						
Inspector Comment						
FS_ID:10085						
DS_ID:20356						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Headwall undermined 3-4-feet on WS toe.						
FIELD_STRUCT_DESC: 2 of 3: 36-inch steel drainage pipe through the						
levee, 30 feet below the crown. Flap gate on the waterside (WS) end.						
24-inch pipe sleeved through the 36-inch pipe. Annular space between						
pipes grouted. Pumps inside pump house with a walkway on the						
landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2006.						
USACE Sacramento O&M Manual 130, May 1960 (HLM 0.15)].						
FS Date: 3/12/2013						

Photo 1 of 3 : UCIP_SP_2019_10085_17227.jpg



Pump house on LS toe.

LM Start	0.14	Rating **	M	Issue No.	1552 (cont)
LM End	0.14	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_10085_17226.jpg



Air vents on pipes at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento River West Side Levee District

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Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	0.14	Rating **	M	Issue No.	1553 (cont)	
LM End	0.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.801491 °		38.801491 °
				-121.725184 °		-121.725184 °
DWR ID	20357					
Comment Code						
Inspector Comment						
FS_ID:10910 DS_ID:20357 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Headwall undermined 3-4-feet on WS toe. FIELD_STRUCT_DESC: 3 of 3: 36-inch steel drainage pipe through the levee, 30 feet below the crown. Flap gate on the waterside (WS) end. 24-inch pipe sleeved through the 36-inch pipe. Annular space between pipes grouted. Pumps inside pump house with a walkway on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 0.15)]. FS Date: 3/12/2013						

Photo 2 of 3 : UCIP_SP_2019_10910_18184.jpg



Air vents on pipes at WS toe.

LM Start	0.14	Rating **	M	Issue No.	1553 (cont)
LM End	0.14	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_10910_18183.jpg



Slide gates at pumphouse on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	0.22	Rating **	A/W	Issue No.	1554
LM End	0.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.802293 °	38.802293 °
				-121.724847 °	-121.724847 °
DWR ID	20327				
Comment Code					
Inspector Comment					
FS_ID:10088					
DS_ID:20327					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: *ABANDONED* 42-inch drainage pipe of an unknown material through the levee, 28.5 feet below the crown.					
Abandoned in place by plugging with concrete. Headwall on waterside (WS) toe. [Additional Reference(s): USACE Sacramento O&M Manual 130, May 1960 (HLM 0.22)].					
FS Date: 3/12/2013					

Photo 1 of 1 : UCIP_SP_2019_10088_17237.jpg



Concrete headwall visible on WS toe.

LM Start	2.09	Rating **	M	Issue No.	76
LM End	2.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.828597 °	38.828597 °
				-121.726049 °	-121.726049 °
DWR ID	DWR_NA0016_01_s_2019_76				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A fallen tree is located on the waterside slope.					

Photo 1 of 1 : SP_2019_NA0016_435_76_20190404_00210.jpg



View of fallen tree on the waterside slope. Spring 2019.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	3.54	Rating **	A/W	Issue No.	1556
LM End	3.54	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.846492 °	38.846492 °
				-121.730066 °	-121.730066 °
DWR ID	20331				
Comment Code					
Inspector Comment					
FS_ID:10125 DS_ID:20331 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 5-foot by 5-foot reinforced concrete box drainage tunnel through the levee, 33 feet below the crown. Slide gate at outlet on the waterside (WS) toe. Tunnel runs from concrete U-shaped riser unit on the landside (LS) shoulder to the WS toe. Steel walkway to slide gate actuator on the WS berm. [Additional Reference(s): USACE Sacramento O&M Manual 130, May 1960 (HLM 3.59)]. FS Date: 3/12/2013					

Photo 1 of 3 : UCIP_SP_2019_10125_17283.jpg



Steel walkway on WS berm with Slide gate actuator.

LM Start	3.54	Rating **	A/W	Issue No.	1556 (cont)
LM End	3.54	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_10125_17282.jpg



Pumphouse at LS toe and concrete riser on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	3.54	Rating **	A/W	Issue No.	1556 (cont)	
LM End	3.54	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.846492 °		38.846492 °
				-121.730066 °		-121.730066 °
DWR ID	20331					
Comment Code						
Inspector Comment						
FS_ID:10125 DS_ID:20331 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 5-foot by 5-foot reinforced concrete box drainage tunnel through the levee, 33 feet below the crown. Slide gate at outlet on the waterside (WS) toe. Tunnel runs from concrete U-shaped riser unit on the landside (LS) shoulder to the WS toe. Steel walkway to slide gate actuator on the WS berm. [Additional Reference(s): USACE Sacramento O&M Manual 130, May 1960 (HLM 3.59)]. FS Date: 3/12/2013						

Photo 3 of 3 : UCIP_SP_2019_10125_17281.jpg



Slide gate at outlet at river side.

LM Start	5.81	Rating **	M	Issue No.	77
LM End	5.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.866770 °	38.866770 °
				-121.747840 °	-121.747840 °
DWR ID	DWR_NA0016_01_s_2019_77				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A fallen tree is located on the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	8.55	Rating **	A/W	Issue No.	112
LM End	8.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.857422 °	38.857422 °
				-121.780870 °	-121.780870 °
DWR ID	DWR_NA0016_01_s_2018_112				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Location on waterside berm where oak tree fell and removed soil around the roots. New erosion as of the Spring 2019 inspection date. Recommend monitoring.					

Photo 1 of 4 : SP_2019_NA0016_435_112_20190404_00211.jpg



View of erosion on the waterside berm. Spring 2019.

LM Start	8.55	Rating **	A/W	Issue No.	112 (cont)
LM End	8.55	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP_2019_NA0016_435_112_20190304_00040.jpg



View of the berm where the oak tree used to stand, facing the Sacramento River. Spring 2018.

LM Start	8.55	Rating **	A/W	Issue No.	112 (cont)
LM End	8.55	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP_2019_NA0016_435_112_20190304_00041.jpg



View of the remaining roots, facing upstream. Spring 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	8.89	Rating **	A/W	Issue No.	1562 (cont)	
LM End	8.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.856531 °	38.856531 °	
				-121.785605 °	-121.785605 °	
DWR ID	20230					
Comment Code						
Inspector Comment						
FS_ID:10146 DS_ID:20230 EP_NO: 9376 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: [El Dorado Bend Pumping Plant] 1 of 4: 50-inch sleeved through existing 54-inch concrete encased steel drainage pipe through the levee, 26.5 feet below the crown. Gate valves on the waterside (WS) ends of the pipes. Walkway provided to the control valves and around the pump house on the landside (LS). Pipes originate in a large concrete pool at the pump house on the LS. (54-inch pipe [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 9376, 1974 - Reclamation District Nos. 2047 and 108; 50-inch pipe sleeved through existing 54-inch pipe and trash rack repairs authorized under maintenance in 2013). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 8.99)]. FS Date: 3/13/2013						

LM Start	8.89	Rating **	A/W	Issue No.	1562 (cont)
LM End	8.89	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_10146_17311.jpg



Walkway to slide gate actuators on WS shoulder.

Photo 3 of 3 : UCIP_SP_2019_10146_17310.jpg



Pipes at outlet on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	8.90	Rating **	A/W	Issue No.	1563	
LM End	8.90	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.856554 °	38.856554 °	
				-121.785613 °	-121.785613 °	
DWR ID	20361					
Comment Code						
Inspector Comment						
FS_ID:10147						
DS_ID:20361						
EP_NO: 9376						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: [El Dorado Bend Pumping Plant] 2 of 4: 54-inch concrete encased steel drainage discharge pipe through the levee, 26.5 feet below the crown. Gate valves on both ends of the pipe. Walkway provided to the gate valves on the waterside (WS) shoulder. Pipe not visible on landside (LS) toe. (54-inch pipe [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 9376, 1974 - Reclamation District Nos. 2047 and 108; now work was done in 2013 at this location). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 8.99)].						
FS Date: 3/13/2013						

Photo 1 of 3 : UCIP_SP_2019_10147_17316.jpg



Pumphouse on LS toe.

LM Start	8.90	Rating **	A/W	Issue No.	1563 (cont)
LM End	8.90	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_10147_17315.jpg



Walkway to slide gate actuators on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	8.90	Rating **	A/W	Issue No.	1563 (cont)
LM End	8.90	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.856554 °	38.856554 °
				-121.785613 °	-121.785613 °
DWR ID	20361				
Comment Code					
Inspector Comment					
FS_ID:10147					
DS_ID:20361					
EP_NO: 9376					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: [El Dorado Bend Pumping Plant] 2 of 4: 54-inch concrete encased steel drainage discharge pipe through the levee, 26.5 feet below the crown. Gate valves on both ends of the pipe. Walkway provided to the gate valves on the waterside (WS) shoulder. Pipe not visible on landside (LS) toe. (54-inch pipe [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 9376, 1974 - Reclamation District Nos. 2047 and 108; now work was done in 2013 at this location). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 8.99)].					
FS Date: 3/13/2013					

Photo 3 of 3 : UCIP_SP_2019_10147_17314.jpg



Slide gates and pipes at outlet structure on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	8.90	Rating **	A/W	Issue No.	1565	
LM End	8.90	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.856608 °	38.856608 °	
				-121.785622 °	-121.785622 °	
DWR ID	20363					
Comment Code						
Inspector Comment						
FS_ID:10149						
DS_ID:20363						
EP_NO: 9376						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: [El Dorado Bend Pumping Plant] 4 of 4: 50-inch sleeved through existing 54-inch concrete encased steel drainage discharge pipe through the levee, 26.5 feet below the crown. Gate valves on both ends of the pipe. Walkway provided to the control valves. (54-inch pipe [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 9376, 1974 - Reclamation District Nos. 2047 and 108; 50-inch pipe sleeved through existing 54-inch pipe and trash rack repairs authorized under maintenance in 2013).						
[Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 8.99)].						
FS Date: 3/13/2013						

Photo 1 of 3 : UCIP_SP_2019_10149_17324.jpg



Pumphouse on LS.

LM Start	8.90	Rating **	A/W	Issue No.	1565 (cont)
LM End	8.90	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_10149_17323.jpg



Slide gate actuators on platform at WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	8.90	Rating **	A/W	Issue No.	1565 (cont)	
LM End	8.90	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.856608 °	38.856608 °	
				-121.785622 °	-121.785622 °	
DWR ID	20363					
Comment Code						
Inspector Comment						
FS_ID:10149						
DS_ID:20363						
EP_NO: 9376						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: [El Dorado Bend Pumping Plant] 4 of 4: 50-inch sleeved through existing 54-inch concrete encased steel drainage discharge pipe through the levee, 26.5 feet below the crown. Gate valves on both ends of the pipe. Walkway provided to the control valves. (54-inch pipe [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 9376, 1974 - Reclamation District Nos. 2047 and 108; 50-inch pipe sleeved through existing 54-inch pipe and trash rack repairs authorized under maintenance in 2013). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 8.99)].						
FS Date: 3/13/2013						

Photo 3 of 3 : UCIP_SP_2019_10149_17322.jpg



Pipes and slide gates at outlet on WS.

LM Start	9.68	Rating **	A/W	Issue No.	29
LM End	9.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.862345 °	38.862848 °
				-121.791337 °	-121.793267 °
DWR ID	DWR_NA0016_01_s_2012_29				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : SP_2019_NA0016_435_29_20190304_00007.jpg



View of the revegetation site on the waterward side of the levee looking upstream. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	9.68	Rating **	A/W	Issue No.	29 (cont)	
LM End	9.79	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.862345 °		38.862848 °
				-121.791337 °		-121.793267 °
DWR ID	DWR_NA0016_01_s_2012_29					
Comment Code						
V8 : Environmental Requirements.						
Inspector Comment						

Photo 2 of 2 : SP_2019_NA0016_435_29_20190304_00008.jpg



Revegetation site sign. Spring 2016.

LM Start	9.75	Rating **	A/W	Issue No.	1567
LM End	9.75	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.862615 °	38.862615 °
				-121.792582 °	-121.792582 °
DWR ID	20232				
Comment Code					
Inspector Comment					
FS_ID:10164 DS_ID:20232 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 5: 60-inch reinforced concrete drainage culvert through the levee, 35 feet below the crown. Screw gates on walkway at waterside (WS) shoulder. Staff gauge to 47.0 feet on structure. [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 9.87)]. FS Date: 3/13/2013					

Photo 1 of 3 : UCIP_SP_2019_10164_17345.jpg



Slide gates at concrete headwall at river

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	9.75	Rating **	A/W	Issue No.	1567 (cont)	
LM End	9.75	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.862615 °	38.862615 °	
				-121.792582 °	-121.792582 °	
DWR ID	20232					
Comment Code						
Inspector Comment						
FS_ID:10164 DS_ID:20232 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 5: 60-inch reinforced concrete drainage culvert through the levee, 35 feet below the crown. Screw gates on walkway at waterside (WS) shoulder. Staff gauge to 47.0 feet on structure. [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 9.87)]. FS Date: 3/13/2013						

Photo 2 of 3 : UCIP_SP_2019_10164_17344.jpg



Pipes at entrance to pumping plant building on LS toe.

LM Start	9.75	Rating **	A/W	Issue No.	1567 (cont)
LM End	9.75	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_10164_17343.jpg



Slide gate actuators on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	9.76	Rating **	A/W	Issue No.	1568	
LM End	9.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.862624 °		38.862624 °
				-121.792626 °		-121.792626 °
DWR ID	20364					
Comment Code						
Inspector Comment						
FS_ID:10165 DS_ID:20364 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 5: 60-inch reinforced concrete drainage culvert through the levee, 35 feet below the crown. Screw gate actuators on metal platform on the waterside (WS) shoulder. Large pumping plant building on the landside (LS) shoulder. Staff gauge to 47 feet on structure. [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 9.87)]. FS Date: 3/13/2013						

Photo 1 of 3 : UCIP_SP_2019_10165_17348.jpg



Slide gates and headwall on WS toe.

LM Start	9.76	Rating **	A/W	Issue No.	1568 (cont)
LM End	9.76	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_10165_17347.jpg



Pipes at inlet to pumphouse on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento River West Side Levee District

Pumphouse on LS.

Slide gate and concrete headwall on WS toe.

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	9.76	Rating **	A/W	Issue No.	1569 (cont)	
LM End	9.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.862633 °		38.862633 °
				-121.792669 °		-121.792669 °
DWR ID	20365					
Comment Code						
Inspector Comment						
FS_ID:10168 DS_ID:20365 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 3 of 5: 60-inch reinforced concrete drainage culvert through the levee, 35 feet below the crown. Screw gate actuators on metal platform on the waterside (WS) shoulder. Large pumping plant building on the landside (LS) shoulder. Staff gauge to 47 feet on structure. [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 9.87)]. FS Date: 3/13/2013						

Photo 2 of 3 : UCIP_SP_2019_10168_17359.jpg



Pipe at inlet to pumphouse on LS toe.

LM Start	9.76	Rating **	A/W	Issue No.	1569 (cont)
LM End	9.76	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_10168_17358.jpg



Pumphouse on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	9.76	Rating **	A/W	Issue No.	1570	
LM End	9.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.862642 °	38.862642 °	
				-121.792713 °	-121.792713 °	
DWR ID	20366					
Comment Code						
Inspector Comment						
FS_ID:10167						
DS_ID:20366						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 4 of 5: 60-inch reinforced concrete drainage culvert through the levee, 35 feet below the crown. Screw gate actuators on metal platform on the waterside (WS) shoulder. Large pumping plant building on the landside (LS) shoulder. Staff gauge to 47 feet on structure. [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 9.87)].						
FS Date: 3/13/2013						

Photo 1 of 3 : UCIP_SP_2019_10167_17352.jpg



Slide gates and headwall at WS toe.

LM Start	9.76	Rating **	A/W	Issue No.	1570 (cont)
LM End	9.76	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_10167_17351.jpg



Pipes at inlet to pumping plant on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	9.76	Rating **	A/W	Issue No.	1570 (cont)	
LM End	9.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.862642 °		38.862642 °
				-121.792713 °		-121.792713 °
DWR ID	20366					
Comment Code						
Inspector Comment						
FS_ID:10167						
DS_ID:20366						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 4 of 5: 60-inch reinforced concrete drainage culvert through the levee, 35 feet below the crown. Screw gate actuators on metal platform on the waterside (WS) shoulder. Large pumping plant building on the landside (LS) shoulder. Staff gauge to 47 feet on structure. [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 9.87)].						
FS Date: 3/13/2013						

Photo 3 of 3 : UCIP_SP_2019_10167_17350.jpg



Pumping plant on LS.

LM Start	9.76	Rating **	A/W	Issue No.	1571
LM End	9.76	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.862650 °	38.862650 °
				-121.792754 °	-121.792754 °
DWR ID	20367				
Comment Code					
Inspector Comment					
FS_ID:10169 DS_ID:20367 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 5 of 5: 60-inch reinforced concrete drainage culvert through the levee, 35 feet below the crown. Screw gate actuators on metal platform on the waterside (WS) shoulder. Large pumping plant building on the landside (LS) shoulder. Staff gauge to 47 feet on structure. [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 9.87)]. FS Date: 3/13/2013					

Photo 1 of 3 : UCIP_SP_2019_10169_17364.jpg



Slide gates and concrete headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	9.76	Rating **	A/W	Issue No.	1571 (cont)	
LM End	9.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.862650 °		38.862650 °
				-121.792754 °		-121.792754 °
DWR ID	20367					
Comment Code						
Inspector Comment						
FS_ID:10169 DS_ID:20367 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 5 of 5: 60-inch reinforced concrete drainage culvert through the levee, 35 feet below the crown. Screw gate actuators on metal platform on the waterside (WS) shoulder. Large pumping plant building on the landside (LS) shoulder. Staff gauge to 47 feet on structure. [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 130, May 1960 (HLM 9.87)]. FS Date: 3/13/2013						

Photo 2 of 3 : UCIP_SP_2019_10169_17363.jpg



pipes at entrance to pumphouse on LS toe.

LM Start	9.76	Rating **	A/W	Issue No.	1571 (cont)
LM End	9.76	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_10169_17362.jpg



Pumphouse on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	11.50	Rating **	A/W	Issue No.	84
LM End	11.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.874854 °	38.875109 °
				-121.813018 °	-121.813592 °
DWR ID	DWR_NA0016_01_f_2018_84				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 101.3 R					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 1997 - Toe damage and loss of cobble revetment and small patch of local damage to the cobble revetment. 2000 - Cohesive vertical toe; revegetation site.					

Photo 1 of 1 : SP_2019_NA0016_435_84_20190304_00019.jpg



USACE 2013 Photo #1

LM Start	12.61	Rating **	M	Issue No.	78
LM End	12.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.888761 °	38.888761 °
				-121.814375 °	-121.814375 °
DWR ID	DWR_NA0016_01_s_2019_78				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A fallen tree is located on the waterside slope.					

No Photos

LM Start	14.77	Rating **	A/W	Issue No.	107
LM End	14.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.912188 °	38.912188 °
				-121.816825 °	-121.816825 °
DWR ID	DWR_NA0016_01_f_2018_107				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There are less than 5 holes on the landside slope. LMA has a bait station. Recommend monitoring.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	14.77	Rating **	M	Issue No.	79
LM End	14.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.912223 °	38.912223 °	
			-121.816836 °	-121.816836 °	
DWR ID	DWR_NA0016_01_s_2019_79				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A fallen tree is located on the waterside slope.					

No Photos

LM Start	17.38	Rating **	C	Issue No.	109
LM End	17.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.937222 °	38.937222 °	
			-121.831590 °	-121.831590 °	
DWR ID	DWR_NA0016_01_f_2018_109				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	18.23	Rating **	M	Issue No.	80
LM End	18.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.947041 °	38.947041 °	
			-121.837440 °	-121.837440 °	
DWR ID	DWR_NA0016_01_s_2019_80				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A fallen tree is located on the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

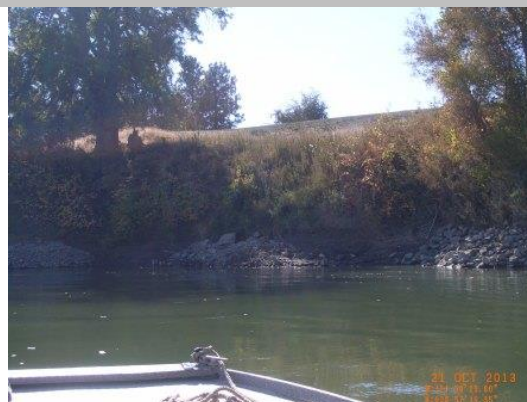
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	18.76	Rating **	A/W	Issue No.	121
LM End	18.78	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.954060 °	38.954312 °
				-121.840560 °	-121.840774 °
DWR ID	DWR_NA0016_01_f_2017_121				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:9					
Site Designation:DWR_NA0016_01_s_2012_2					
Repair Type: Erosion					
Rating:Serious					
Field Date:8/28/2017					
Notes: near abandoned pump intake					

No Photos

LM Start	18.76	Rating **	A/W	Issue No.	85
LM End	18.78	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.954060 °	38.954312 °
				-121.840560 °	-121.840774 °
DWR ID	DWR_NA0016_01_f_2018_85				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 111.0 R					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2009 - Minor erosion, should be repaired under maintenance. 2011 - Some new minor erosion at the toe.					

Photo 1 of 1 : SP_2019_NA0016_435_85_20190304_00020.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	23.55	Rating **	A/W	Issue No.	86
LM End	23.65	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.997696 °	38.998336 °
				-121.797584 °	-121.799298 °
DWR ID	DWR_NA0016_01_f_2018_86				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 115.9 R					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2008 - Slippage of cobbles off hard underlying toe material. 2011 - Minor slumping site. 2012 - Failing cobble site, site extended upstream. 2016 - New erosion pockets.					
DWR Inspector Comment: Cobble shelf within the water. There is a large section of berm. Does not appear to be actively eroding. Recommend monitoring.					

Photo 1 of 1 : SP_2019_NA0016_435_86_20190304_00021.jpg



USACE 2013 Photo #1

LM Start	25.75	Rating **	A/W	Issue No.	88
LM End	25.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.014499 °	39.016401 °
				-121.825880 °	-121.824230 °
DWR ID	DWR_NA0016_01_f_2018_88				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 118.0 R					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2008 - Whole bank is eroding, nearly vertical slope with cohesive toe. Bed is very deep along the toe (greater than 30 ft deep at 20 ft from the shore). 2011 - Some new minor erosion. 2016 - Minor new erosion.					

Photo 1 of 1 : SP_2019_NA0016_435_88_20190304_00023.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	25.76	Rating **	A/W	Issue No.	81
LM End	25.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			39.014725 °	39.014725 °
				-121.826050 °	-121.826050 °
DWR ID	DWR_NA0016_01_s_2019_81				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
50' cracking section on waterside bench. LMA has staked crown and painted over the cracks. Recommend monitoring.					

Photo 1 of 2 : SP_2019_NA0016_435_81_20190404_00212.jpg



View of levee crown where LMA has placed monitoring stakes. Spring 2019.

LM Start	25.76	Rating **	A/W	Issue No.	81 (cont)
LM End	25.76	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2019_NA0016_435_81_20190404_00213.jpg



View of cracking on the waterside berm. Spring 2019.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	27.54	Rating **	M	Issue No.	1586
LM End	27.54	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.034870 °	39.034870 °
				-121.833501 °	-121.833501 °
DWR ID	20257				
Comment Code					
Inspector Comment					
FS_ID:53982 DS_ID:20257 EP_NO: 9355 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/06/2019 Inlet and outlet gates are silted. Missing handwheel on gate valve at LS toe. (DWR UCIP - O.Yakimov) Pipe needs to be properly abandoned. FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel drainage pipe through the levee, 14 feet below the crown. Slide gate on the waterside (WS) end. Gate valve on the landside (LS) end. (24-inch pipe [HLM 27.89] authorized under Automatic Board Order (ABO) issued as Permit No. 9355, 1974 - Alvin Gustafson). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 131, May 1960 (HLM 27.89)]. FS Date: 5/6/2019 9:24:06 AM					

Photo 1 of 3 : UCIP_SP_2019_53982_79209.jpg



Slide gate silted on WS end

LM Start	27.54	Rating **	M	Issue No.	1586 (cont)
LM End	27.54	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_53982_79210.jpg



Gate valve silted at LS toe. Missing handwheel

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	27.54	Rating **	M	Issue No.	1586 (cont)	
LM End	27.54	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.034870 °	39.034870 °	
				-121.833501 °	-121.833501 °	
DWR ID	20257					
Comment Code						
Inspector Comment						
FS_ID:53982 DS_ID:20257 EP_NO: 9355 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/06/2019 Inlet and outlet gates are silted. Missing handwheel on gate valve at LS toe. (DWR UCIP - O.Yakimov) Pipe needs to be properly abandoned. FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel drainage pipe through the levee, 14 feet below the crown. Slide gate on the waterside (WS) end. Gate valve on the landside (LS) end. (24-inch pipe [HLM 27.89] authorized under Automatic Board Order (ABO) issued as Permit No. 9355, 1974 - Alvin Gustafson). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 131, May 1960 (HLM 27.89)]. FS Date: 5/6/2019 9:24:06 AM						

Photo 3 of 3 : UCIP_SP_2019_53982_17548.jpg



Gate valve buried on LS toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento River West Side Levee District

CMP riser with siphon breaker on WS slope

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	28.64	Rating **	A/W	Issue No.	1589 (cont)
LM End	28.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.048281 °	39.048281 °
				-121.841084 °	-121.841084 °
DWR ID	20341				
Comment Code					
Inspector Comment					
FS_ID:53985 DS_ID:20341 EP_NO: 9358 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 05/06/2019 Crossing is in good condition. (DWR UCIP - O.Yakimov) FIELD_STRUCT_DESC: 16-inch steel drainage pipe through the levee, 8.5 feet below the crown. Siphon breaker inside a 24-inch corrugated metal riser unit on the waterside (WS) slope. Pump inside pump house on the landside (LS). Overhead power line crosses the levee. Pole on the LS shoulder. (one 12-inch, one 16-inch, and one 24-inch pipes [HLM 29.02] authorized under Automatic Board Order (ABO) issued as Permit No. 9358, 1974 - Crocker National Bank (Trustee)). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 131, May 1960 (HLM 29.02)]. FS Date: 5/6/2019 12:51:38 PM					

Photo 3 of 3 : UCIP_SP_2019_53985_79219.jpg



Pumphouse and sump on LS looking from landside

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	28.65	Rating **	A/W	Issue No.	1590 (cont)	
LM End	28.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.048295 °	39.048295 °	
				-121.841088 °	-121.841088 °	
DWR ID	20259					
Comment Code						
Inspector Comment						
FS_ID:53986 DS_ID:20259 EP_NO: 9358 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 05/06/2019 Crossing is in good condition. (DWR UCIP - O.Yakimov) FIELD_STRUCT_DESC: 10-inch steel drainage pipe through the levee, 8 feet below the crown. Siphon breaker in a 24-inch corrugated metal riser on the waterside (WS) slope. Slide gate at base of pump house on landside (LS) toe. Pump over sump at pump house on LS toe. Overhead power line crosses the levee. Pole on the LS shoulder. (one 12-inch, one 16-inch, and one 24-inch pipes [HLM 29.02] authorized under Automatic Board Order (ABO) issued as Permit No. 9358, 1974 - Crocker National Bank (Trustee)). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 131, May 1960 (HLM 29.02)]. FS Date: 5/6/2019 2:23:55 PM						

Photo 3 of 3 : UCIP_SP_2019_53986_17569.jpg



Pumphouse over sump on LS toe.

LM Start	29.69	Rating **	A/W	Issue No.	89
LM End	29.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.063209 °	39.063997 °
				-121.838927 °	-121.839335 °
DWR ID	DWR_NA0016_01_f_2018_89				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 122.0 R					
Status: Eroding					
2017 Field Notes: Minor new erosion at toe.					
Site History: 1997 - Mass failure of the lower cohesive bank and toe.					
2000 - Still eroding, steeply dipping foresets in the toe are falling off.					
2010 - Some new erosion and some new deposition. Eddy current off the upstream rock. 2011 - Still plenty of berm left. 2016 - Minor new erosion.					

Photo 1 of 1 : SP_2019_NA0016_435_89_20190304_00024.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

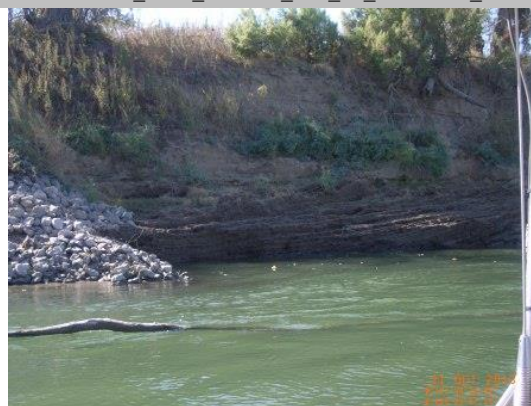
Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	29.96	Rating **	A/W	Issue No.	91
LM End	30.12	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.065886 °	39.067386 °
				-121.842950 °	-121.845266 °
DWR ID	DWR_NA0016_01_f_2018_91				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 122.3 R Status: Eroding 2017 Field Notes: Fresh slumping erosion at toe. Site History: 2002 - Upstream end has recent slope failure and exposure of tree roots. 2003 - Some new minor slope erosion with new snags on the bank. 2004 - Appears a little worse. 2005 - Scallop in bank at the upstream end looks worse. 2009 - Minimal new erosion, Berm width is still large, but one large event or one fallen tree and it could go fast. 2010 - New erosion, bank is nearly all vertical from slumping. Site looks bad. 2011 - Site continues to look bad. 2012 - Minor new erosion. 2015 - Undermining of toe rock. 2016 - Site extended upstream, new erosion and exposed tree roots.					
DWR Inspector Comment: No erosion within the prism and vegetation appears to be stabilizing the bank. Recommend monitoring.					

Photo 1 of 1 : SP_2019_NA0016_435_91_20190304_00026.jpg



USACE 2013 Photo #1

LM Start	30.00	Rating **	M	Issue No.	83
LM End	30.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.066001 °	39.066001 °
				-121.843910 °	-121.843910 °
DWR ID	DWR_NA0016_01_s_2019_83				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A very large fallen tree is located on the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

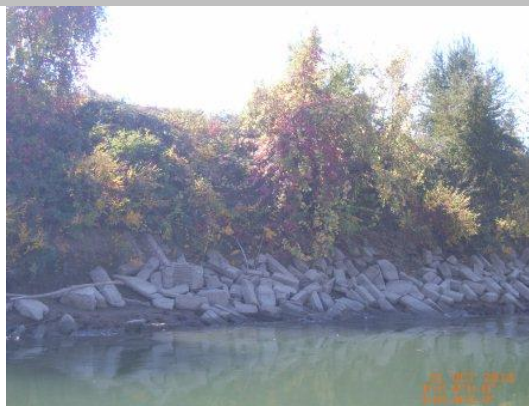
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	30.36	Rating **	M	Issue No.	111
LM End	30.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.069795 °	39.069795 °
				-121.848487 °	-121.848487 °
DWR ID	DWR_NA0016_01_s_2019_111				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A fallen tree is located on the waterside slope.					

No Photos

LM Start	31.43	Rating **	A/W	Issue No.	92
LM End	31.45	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.067004 °	39.066901 °
				-121.866913 °	-121.867322 °
DWR ID	DWR_NA0016_01_f_2018_92				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 123.7 R Status: Eroding 2017 Field Notes: No observed change. Site History: 1997 - Erosion into the levee section; old concrete rubble loss at toe; transition between the rock upstream and the cobble downstream. 2000 - Cohesive bench with concrete slabs on top; 25 ft deep scour hole on the downstream end. DWR Inspector Comment: Appears to be stable. Plenty of berm and cobble left.					

Photo 1 of 1 : SP_2019_NA0016_435_92_20190304_00027.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	32.03	Rating **	M	Issue No.	41
LM End	32.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.069130 °	39.069130 °
				-121.876638 °	-121.876638 °
DWR ID	DWR_NA0016_01_s_2012_41				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	33.29	Rating **	A/W	Issue No.	93
LM End	33.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.078340 °	39.079351 °
				-121.894656 °	-121.895317 °
DWR ID	DWR_NA0016_01_f_2018_93				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 125.6 R					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2008 - Slow erosion of the hard toe. 2010 - Cobble rubble is failing, erosion is into the toe of the levee, with vertical slumping.					
2012 - Site appears to be relatively stable. 2013 - New animal holes.					

Photo 1 of 1 : SP_2019_NA0016_435_93_20190304_00028.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	35.26	Rating **	A/W	Issue No.	114 (cont)
LM End	35.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.099746 °	39.100122 °
				-121.904555 °	-121.904658 °
DWR ID	DWR_NA0016_01_s_2019_114				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on the waterside berm reported during 2018 storms. Approximately 45' from the bank to the waterside toe is left. Recommend monitoring.					

LM Start	35.26	Rating **	A/W	Issue No.	114 (cont)
LM End	35.29	Issue Type +	Ma	Location *	WS

Photo 2 of 5 : SP_2019_NA0016_435_114_20190404_00215.jpg



View of the middle stake on the waterside berm. Spring 2019.

Photo 3 of 5 : SP_2019_NA0016_435_114_20190404_00216.jpg



View of the erosion site facing downstream. Spring 2019.

LM Start	35.26	Rating **	A/W	Issue No.	114 (cont)
LM End	35.29	Issue Type +	Ma	Location *	WS

Photo 4 of 5 : SP_2019_NA0016_435_114_20190404_00217.jpg



View of the upstream stake on the waterside berm. Spring 2019.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	35.26	Rating **	A/W	Issue No.	114 (cont)	
LM End	35.29	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			39.099746 °		39.100122 °
				-121.904555 °		-121.904658 °
DWR ID	DWR_NA0016_01_s_2019_114					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Erosion on the waterside berm reported during 2018 storms. Approximately 45' from the bank to the waterside toe is left. Recommend monitoring.						

Photo 5 of 5 : SP_2019_NA0016_435_114_20190404_00218.jpg



View of the erosion site from the crown, facing upstream. Spring 2019.

LM Start	35.60	Rating **	M	Issue No.	115
LM End	35.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.104121 °	39.104121 °
				-121.907002 °	-121.907002 °
DWR ID	DWR_NA0016_01_s_2019_115				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A fallen tree is located on the waterside slope.					

No Photos

LM Start	35.71	Rating **	C	Issue No.	60
LM End	35.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.105637 °	39.105637 °
				-121.907977 °	-121.907977 °
DWR ID	DWR_NA0016_01_f_2018_60				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on the waterside slope.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	36.15	Rating **	M	Issue No.	1597	
LM End	36.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.111233 °		39.111233 °
				-121.911450 °		-121.911450 °
DWR ID	20345					
Comment Code						
Inspector Comment						
FS_ID:10426 DS_ID:20345 EP_NO: 9374 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Verify if pipe is abandoned with landowner and remove or abandon properly if necessary. FIELD_STRUCT_DESC: *ABANDONED* 3 of 3: 24-inch concrete encased steel drainage pipe through the levee, 17 feet below the crown. Slide gate on concrete headwall on waterside (WS) end. Walkway to control gate and gate valve on landside (LS) end. (24-inch pipe [HLM 36.61] authorized under Automatic Board Order (ABO) issued as Permit No. 9374, 1974 - Richard H. Moore). [Additional Reference(s): USACE Sacramento O&M Manual 131, May 1960 (HLM 36.61)]. FS Date: 3/18/2013						

LM Start	36.15	Rating **	M	Issue No.	1597 (cont)
LM End	36.15	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_10426_17705.jpg



Slide gate on WS toe.

Photo 2 of 3 : UCIP_SP_2019_10426_17704.jpg



Headwall and gate valve on LS toe buried but partially exposed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	36.15	Rating **	M	Issue No.	1597 (cont)	
LM End	36.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.111233 °		39.111233 °
				-121.911450 °		-121.911450 °
DWR ID	20345					
Comment Code						
Inspector Comment						
FS_ID:10426 DS_ID:20345 EP_NO: 9374 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Verify if pipe is abandoned with landowner and remove or abandon properly if necessary. FIELD_STRUCT_DESC: *ABANDONED* 3 of 3: 24-inch concrete encased steel drainage pipe through the levee, 17 feet below the crown. Slide gate on concrete headwall on waterside (WS) end. Walkway to control gate and gate valve on landside (LS) end. (24-inch pipe [HLM 36.61] authorized under Automatic Board Order (ABO) issued as Permit No. 9374, 1974 - Richard H. Moore). [Additional Reference(s): USACE Sacramento O&M Manual 131, May 1960 (HLM 36.61)]. FS Date: 3/18/2013						

Photo 3 of 3 : UCIP_SP_2019_10426_17703.jpg



Outlet/inlet on WS toe.

LM Start	36.76	Rating **	M	Issue No.	117
LM End	36.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.119303 °	39.119303 °
				-121.915127 °	-121.915127 °
DWR ID	DWR_NA0016_01_s_2019_117				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A fallen tree is located on the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	39.85	Rating **	M	Issue No.	118
LM End	39.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.143354 °	39.143354 °
				-121.928754 °	-121.928754 °
DWR ID	DWR_NA0016_01_s_2019_118				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes are located on the landside slope.					

No Photos

LM Start	41.08	Rating **	A/W	Issue No.	1604
LM End	41.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.152347 °	39.152347 °
				-121.920610 °	-121.920610 °
DWR ID	20288				
Comment Code					
Inspector Comment					
FS_ID:10535					
DS_ID:20288					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch drainage pipe of an unknown material through the levee, 19 feet below the crown. 6-foot diameter corrugated metal standpipe on the landside (LS) toe. Pump and 24-inch pipe on the LS. Slide gate in corrugated metal riser unit on waterside (WS) slope. Concrete block wall at WS toe for discharge line. (Modified under Permit No. 8587, 1973 - Anthony E. Steidlmaier). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 131, May 1960 (HLM 41.56)].					
FS Date: 3/21/2013					

Photo 1 of 3 : UCIP_SP_2019_10535_17877.jpg



Slide gate in CMP riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	41.08	Rating **	A/W	Issue No.	1604 (cont)	
LM End	41.08	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.152347 °		39.152347 °
				-121.920610 °		-121.920610 °
DWR ID	20288					
Comment Code						
Inspector Comment						
FS_ID:10535 DS_ID:20288 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch drainage pipe of an unknown material through the levee, 19 feet below the crown. 6-foot diameter corrugated metal standpipe on the landside (LS) toe. Pump and 24-inch pipe on the LS. Slide gate in corrugated metal riser unit on waterside (WS) slope. Concrete block wall at WS toe for discharge line. (Modified under Permit No. 8587, 1973 - Anthony E. Steidlmayer). [Additional Reference(s): DWR Levee Log, 2006. USACE Sacramento O&M Manual 131, May 1960 (HLM 41.56)]. FS Date: 3/21/2013						

LM Start	41.08	Rating **	A/W	Issue No.	1604 (cont)
LM End	41.08	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_10535_17876.jpg



6-foot diameter CMP riser with slide gates on LS toe.

Photo 3 of 3 : UCIP_SP_2019_10535_17875.jpg



24-inch CMP at connection to CMP riser on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	42.47	Rating **	A/W	Issue No.	119
LM End	42.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.166313 °	39.166313 °
				-121.937546 °	-121.937546 °
DWR ID	DWR_NA0016_01_s_2019_119				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There appears to be a new erosion on the waterside berm. Recommend monitoring.					

Photo 1 of 1 : SP_2019_NA0016_435_119_20190404_00219.jpg



View of erosion from the crown. Spring 2019.

LM Start	42.73	Rating **	A/W	Issue No.	146
LM End	42.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.169949 °	39.169949 °
				-121.938664 °	-121.938664 °
DWR ID	DWR_NA0016_01_f_2015_146				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 2 : SP_2019_NA0016_435_146_20190304_00056.jpg



Slope stability issue due to foot traffic. Spring 2017.

LM Start	42.73	Rating **	A/W	Issue No.	146 (cont)
LM End	42.73	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2019_NA0016_435_146_20190304_00057.jpg



Slope stability issue due to foot traffic. Fall 2016 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	42.90	Rating **	A/W	Issue No.	95
LM End	43.09	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.172501 °	39.174949 °
				-121.939053 °	-121.940737 °
DWR ID	DWR_NA0016_01_f_2018_95				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 136.6 R					
Status: Eroding					
2017 Field Notes: New erosion observed along the entire bank slope.					
Site History: 2010 - Lower portion of 136.7 that did not extend far enough. Abrupt transition from upstream site. 2012 - Site extended upstream, minor new erosion. 2013 - Minor new erosion at the toe. New tree popout. Downstream limit extended. 2016 - Site continues to worsen, fresh erosion at toe.					

Photo 1 of 1 : SP_2019_NA0016_435_95_20190304_00030.jpg



USACE 2013 Photo #1

LM Start	45.82	Rating **	C	Issue No.	110
LM End	45.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.189371 °	39.189371 °
				-121.959562 °	-121.959562 °
DWR ID	DWR_NA0016_01_f_2018_110				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	47.62	Rating **	A/W	Issue No.	97
LM End	47.77	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.193769 °	39.195595 °
				-121.987901 °	-121.988621 °
DWR ID	DWR_NA0016_01_f_2018_97				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 141.5 R					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2010 - Old cobble site starting to unravel at toe. 2011 - Cobbles continue to unravel. 2013 - Site extended downstream to revetment.					

Photo 1 of 1 : SP_2019_NA0016_435_97_20190304_00032.jpg



USACE 2013 Photo #1

LM Start	47.95	Rating **	A/W	Issue No.	98
LM End	48.15	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.198117 °	39.200685 °
				-121.988106 °	-121.986717 °
DWR ID	DWR_NA0016_01_f_2018_98				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 141.9 R					
Status: Eroding New					
2017 Field Notes: Erosion along entire bank slope. Bank heavily vegetated. Tree popout that has removed a large of bank.					
Site History:					
DWR Inspector Comment: Large amount of berm left, and USACE will construct a seepage berm in 2019 on the landside.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	49.64	04/02/2019 04/03/2019	Zach Jojola

LM Start	49.42	Rating **	A/W	Issue No.	113
LM End	49.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.213303 °	39.213303 °
				-121.996915 °	-121.996915 °
DWR ID	DWR_NA0016_01_f_2018_113				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Runoff erosion is located on the waterside berm. Recommend monitoring.					

Photo 1 of 1 : SP_2019_NA0016_435_113_20190304_00043.jpg



View of erosion on the waterside berm. Fall 2018.

LM Start	49.46	Rating **	A/W	Issue No.	105
LM End	49.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.213608 °	39.213869 °
				-121.997543 °	-121.999641 °
DWR ID	DWR_NA0016_01_f_2018_105				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 143.5 R Status: Eroding 2017 Field Notes: New erosion along lower slope. Site History: 2011 - Multiple scallops, one tree pop out. Old cobble site starting to unravel at midbank. 2012 - Mid bank slumping continues to worsen but cobble at the toe appears stable.					
DWR Inspector Comment: Erosion on the waterside berm. Recommend monitoring.					

Photo 1 of 1 : SP_2019_NA0016_435_105_20190304_00036.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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